**Outline**

Sign-up for GitHub and begin using this project management tool. Review terms of service, create projects in the cloud for the course, and initialize a synchronize local repositories for these projects.

**Objectives**

* Use standard backup procedures to back up user files.
* Use software tools (e.g., email, wikis, blogs, task lists, bulletin boards, spreadsheets, shared calendars) to plan and track activities during a software development project;
* Use project management tools (e.g., Gantt chart, PERT chart) and time management tools (e.g., organizer, calendar) to help develop a software project;

**Prerequisites**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Prerequisite Module(s)** | **Level** | **Student Initial** | **Teacher Initial** | **Date** |
| Mod A.1 Simon Icebreaker | Level 3 |  |  |  |
| Mod B.2 Arduino Basic Blink | Level 3 |  |  |  |

**Materials**

* N/A.

**Level 0: Terms of Service**

Suggested web resource: <https://github.com/>

1. Review the GitHub terms of service.
   1. Are you permitted to use this software for this class? Copy and highlight the section that conforms this permission.
   2. What rights do you give up by using this software?
   3. What limitations do you have when using this software?
2. Review the GitHub privacy policy.
   1. What information does GitHub collect and track?
   2. How does GitHub share your information? Copy and highlight the section that talks about information sharing.
   3. How does GitHub communicate with you?

**Level 1: Sign-up for GitHub**

Suggested web resource: <https://github.com/>

1. Create an account on GitHub.com.
2. Locate user “Greg5519” (Mr. Nestor) and the course project repository called “ICS3C0”.
3. Download the course module files to your student folder on the network drive.

**Level 2: Create a Modules Project**

Suggested web resource: <https://help.github.com/>

1. Create a new project repository for your ICS3C0 module answers.
2. Upload your answers (i.e. Word File) to “Module A.1 Simon Icebreaker” to the repository
   1. Select your repository
   2. Select the “Code <>” tab
   3. Select the “Upload Files” tab
   4. Follow instructions
3. Upload your answers for “Level 0” of this module to the repository
4. Commit your changes to the repository
   1. Add a comment for the commit
   2. Click on “Commit Changes”
5. Email Mr. Nestor ([Gregory.nestor@peelsb.com](mailto:Gregory.nestor@peelsb.com)) the following information:
   1. Your Name
   2. Your email address (used for GitHub)
   3. Your GitHub user ID
   4. The link to your repository

**Level 3: GitHub Desktop**

Suggested web resource: <https://desktop.github.com/>

Note: Installation and activation of GitHub Desktop may be required

1. Access GitHub Desktop and create a local repository folder on your LASS network drive.
2. Clone your “Modules Repository” from GitHub on the web.
3. Synchronize your repository using GitHub Desktop.
4. Verify that your local files have been synchronized with GitHub on the web.

**Level 4: Arduino Blink Repository**

Suggested web resource: <https://help.github.com/>

1. Create a repository for the “Module B.2 Arduino Blink” module.
2. Synchronize your local files with GitHub.
3. Verify that GitHub on the web is recorded your updates and that the program files have been synchronized.
4. Synchronize your files at the beginning and end of each period.

**Achievement Record**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attainment Level** | **Student Initial** | **Teacher Initial** | **Date** |
| Level 0: Terms of Service |  |  |  |
| Level 1: Sign-up for GitHub |  |  |  |
| Level 2: Create Blink Project |  |  |  |
| Level 3: GitHub Desktop |  |  |  |
| Level 4: Update Blink Repository |  |  |  |